

Memorandum

To: ROBERT OGLESBY
Executive Director

Date: July 7, 2011

Telephone: (916) 654-5013

From: **California Energy Commission** - Panama Bartholomy, Deputy Director
1516 Ninth Street Efficiency and Renewable Energy Division
Sacramento CA 95814-5512

Subject: **POSSIBLE APPROVAL OF THE CITY OF SANTA ROSA'S LOCALLY ADOPTED BUILDING ENERGY STANDARDS TO REQUIRE GREATER ENERGY EFFICIENCY THAN THE 2008 BUILDING ENERGY EFFICIENCY STANDARDS**

Summary of Item

The California Public Resources Code establishes a process that allows cities or counties to adopt and enforce locally adopted energy standards that are more stringent than the statewide standards. This process, described in Section 25402.1(h)(2) and the *2008 Building Energy Efficiency Standards*, Title 24, Part 1, Section 10-106 (Standards), allow cities or counties to adopt new versions of the Standards before their statewide effective date (early adoption), require additional energy efficiency measures, or set more stringent energy budgets. The governing body of the city or county is required to make a determination that the standards are cost effective and adopt the findings at a public meeting. The city or county is required to file this determination of cost effectiveness with the California Energy Commission. The Energy Commission must find that the standards will require the diminution of energy consumption levels permitted by the current Standards. The proposed local ordinance cannot be enforced until it is approved by the Energy Commission.

On March 16, 2011, the City Council of the City of Santa Rosa submitted an application for approval for their local energy standards (Ordinance No. 3957) which will meet or exceed the *2008 Building Energy Efficiency Standards (Title 24, Part 6 of the California Building Standards)*. The ordinance requires the enforcement of the Optional Tier 1 requirements of the *California Green Building Standards Code (Title 24, Part 11 of the California Building Code)* made mandatory by this Ordinance.

Newly constructed residential buildings must exceed the building energy efficiency requirements of Title 24, Part 6 by 15 percent, meet the Title 24, Part 11 Tier 1 Cool Roof requirement for residential buildings, and select four additional energy efficiency elective measures from Title 24, Part 11 Appendix A4. These measures could be the same ones that are used to comply with the requirement to exceed Title 24, Part 6

energy efficiency by 15 percent, so they may or may not result in additional energy savings.

Newly constructed nonresidential buildings must exceed the building energy efficiency requirements of Title 24, Part 6 by 15 percent and meet the Title 24, Part 11 Tier 1 Cool Roof requirement for nonresidential buildings. The cool roof measure may be included in the measures needed to show compliance with the requirement to exceed the energy efficiency of Title 24, Part 6 by 15 percent, and may not result in additional energy savings. While additional elective measures are required for Title 24, Part 11 Tier 1 for nonresidential buildings from Appendix A5, they are not specifically intended to affect the energy efficiency of the building.

The City of Santa Rosa has made a written commitment to enforce compliance with their locally adopted energy standards and Title 24, Part 6. Energy Commission staff has found that the application meets all requirements under Public Resources Code Section 25402.1(h)(2) and Section 10-106 of Title 24, Part 1 and recommends it for approval.

A detailed summary of the proposed local energy standards is provided in Attachment A. The complete application including the full proposed ordinance and cost effectiveness analysis will be made available on the Energy Commission web site upon Energy Commission approval of the proposed ordinance.

Project Manager

Joseph M. Loyer, High Performance Buildings and Standards Development Office.

Summary of Staff Position

Energy Commission staff has found that the application meets all requirements under Public Resources Code Section 25402.1(h)(2) and Section 10-106 of Title 24, Part 1. Energy Commission staff believes that the City of Santa Rosa is to be commended for seeking to achieve the energy savings that result from their local energy ordinance.

The City of Santa Rosa has been informed that the approved ordinance will be enforceable while the *2008 Building Energy Efficiency Standards (Title 24, Part 6 of the California Building Code)* is enforced and upon implementation of new adopted State Standards, the City of Santa Rosa will be required to resubmit an application for local energy standards under Public Resources Code Section 25402.1(h)(2) and Section 10-106 of Title 24, Part 1.

Oral Presentation Outline

Energy Commission staff will provide a brief summary and be available to answer questions if any arise.

Business Meeting Participants

Joseph M. Loyer, High Performance Buildings and Standards Development Office.

Commission Action Requested

Approval of the City of Santa Rosa's locally adopted energy standards that result in more stringent energy requirements than the *2008 Building Energy Efficiency Standards*.

Panama Bartholomy, Deputy Director
Efficiency and Renewable Energy Division

Summary of City of Santa Rosa, Ordinance Number 3957

1. General Requirements of all Buildings

- a. All newly constructed residential and nonresidential buildings must comply with all requirements Title 24, Part 6¹.
- b. All newly constructed residential and nonresidential buildings must comply with all requirements of Title 24, Part 11².
- c. All newly constructed residential and nonresidential buildings must comply with all requirements of Tier 1³ of Title 24, Part 11 Appendix A4 and Appendix A5.

2. Requirements for Residential Buildings

a. Newly Constructed Buildings

- i. Must demonstrate compliance with Title 24, Part 6.
- ii. Must demonstrate compliance with Title 24, Part 11.
- iii. Must demonstrate compliance with Title 24, Part 11 Tier 1.

The Energy efficiency requirements of Tier 1 include the following:

1. Must demonstrate that the building exceeds the energy efficiency requirements of Title 24, Part 6 by at least 15%.
2. Must demonstrate compliance with the Cool Roof Requirements of Appendix Chapter A4 of Title 24, Part 11.
3. Must select and demonstrate compliance with four of the energy efficiency electives of Appendix Chapter A4 of Title 24, Part 11.

Results in energy efficiency improvement of 15% compared to Title 24, Part 6.

3. Requirements for Non Residential Buildings

a. Newly Constructed Buildings

- i. Must demonstrate compliance with Title 24, Part 6.
- ii. Must demonstrate compliance with Title 24, Part 11.
- iii. Must demonstrate compliance with Title 24, Part 11 Tier 1.

The Energy efficiency requirements of Tier 1 include the following:

1. Must demonstrate that the building exceeds the energy efficiency requirements of Title 24, Part 6 by at least 15%.
2. Must demonstrate compliance with the Cool Roof Requirements of Appendix Chapter A5 of Title 24, Part 11.

Results in energy efficiency improvement of 15% compared to Title 24, Part 6.

4. Other Requirements

- a. The City of Santa Rosa has made a written commitment to enforce compliance with their locally adopted energy standard and Title 24, Part 6.

¹ **Title 24, Part 6:** Refers to the 2008 Building Energy Efficiency Standards (Title 24, Part 6) of the California Code of Regulations.

² **Title 24, Part 11:** Refers to the 2010 Green Building Standards (Title 24, Part 11) of the California Code of Regulations.

³ **Tier 1:** Refers to the voluntary requirements of the Tier 1 portion of the 2010 California Green Building Standards Title 24, Part 11 Appendix A4 and Appendix A5.